

Optical Space Telescope Assembly

Completed Technology Project (2011 - 2012)

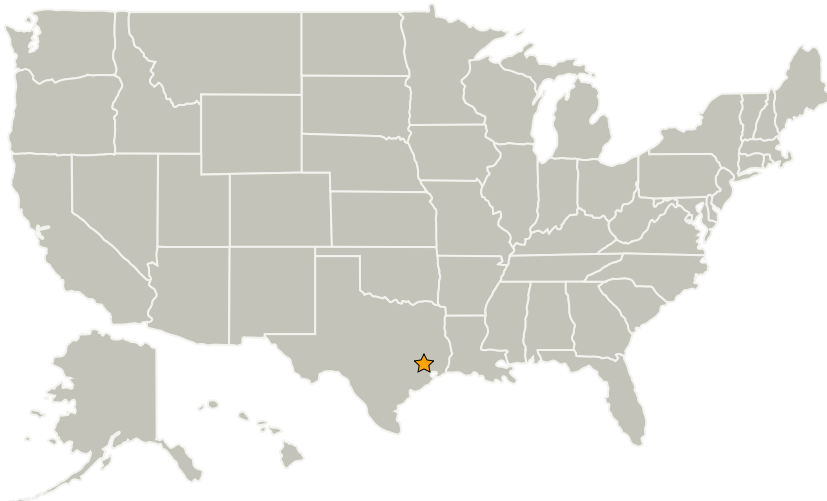


Project Introduction

The Optical Space Telescope Assembly (OSTA) task is to demonstrate the technology readiness of assembling large space telescopes on orbit in 2015. This task is an integrated part of the Optical Testbed and Integration on ISS eXperiment (OpTIIX) program. FTE at JSC will design, build, and test the Gimbal and the robotic driven attachment mechanisms, develop the robotic operation assembly and maintenance plan and procedures, and perform the integrated ISS analysis of the OpTIIX Payload. For FY12, this task will be brought to a PDR level of documentation and hardware.

Design, build, and test Gimbal and Robotic driven attachment mechanism for the telescope.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Game Changing Development



Project Management

Program Director:

Mary J Werkheiser

Program Manager:

Gary F Meyering

Project Manager:

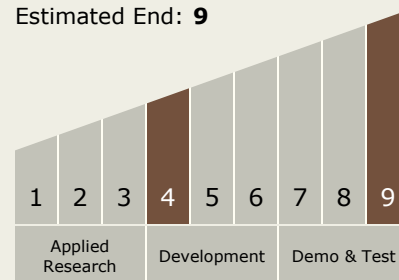
Kim M Ess

Principal Investigator:

Ronald J Litchford

Technology Maturity (TRL)

Start: **4**
Estimated End: **9**



Technology Areas

Primary:

- TX07 Exploration Destination Systems
 - └ TX07.2 Mission Infrastructure, Sustainability, and Supportability
 - └ TX07.2.4 Micro-Gravity Construction and Assembly